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# [1 Query processing for high-volume XML message brokering](#)

Yanlei Diao, Michael Franklin

September VLDB '2003: Proceedings of the 29th international conference on  
2003 Very large data bases - Volume 29, Volume 29

**Publisher:** VLDB Endowment

Full text available: [Pdf](#) (158.36  
KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 9, Citation Count: 3

XML filtering solutions developed to date have focused on the matching of documents to large numbers of queries but have not addressed the customization of output needed for emerging distributed information infrastructures. Support for such customization ...


## 2 "Honey, i shrunk the types": how behavioral types loose relevance on the edges on OO applications and why a core data fabric is useful for adaptability



John Kuriakose

October OOPSLA '05: Companion to the 20th annual ACM SIGPLAN conference on 2005 Object-oriented programming, systems, languages, and applications

**Publisher:** ACM

Full text available:  Pdf (232.31

KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 31, Citation Count: 0

OO Programs are built by first defining User Types within the language environment and then realizing program requirements by using the behavior defined by these Types. We argue against defining types to deal with every scenario. OO Programs within an ...

**Keyw ord s:** core data representation, data driven programming, dynamic data model, enterprise data fabric, enterprise data repository, reflective data API


## 3 Event detection in sensor networks for modern oil fields



Matthew Hill, Murray Campbell, Yuan-Chi Chang, Vijay Iyengar

July DEBS '08: Proceedings of the second international conference on Distributed 2008 event-based systems

**Publisher:** ACM

Full text available:  Pdf (220.22

KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 26, Downloads (12 Months): 32, Citation Count: 0

We report the experience of implementing event detection analytics to monitor and forewarn oil production failures in modern, digitized oil fields. Modern oil fields are equipped with thousands of sensors and gauges to measure various physical and chemical ...

**Keyw ord s:** digital oil field, event warning, gas, industry, near real time analytics, oil, petroleum, surveillance

#### 4 [AGILE: adaptive indexing for context-aware information filters](#)



Jens-Peter Dittrich, Peter M. Fischer, Donald Kossmann

June SIGMOD '05: Proceedings of the 2005 ACM SIGMOD international conference  
2005 on Management of data

**Publisher:** ACM

Full text available: Pdf (630.32 KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 99, Citation Count: 5

Information filtering has become a key technology for modern information systems. The goal of an information filter is to route messages to the right recipients (possibly none) according to declarative rules called profiles. In order to deal with high ...

#### 5 [The BEA streaming XQuery processor](#)

Daniela Florescu, Chris Hillery, Donald Kossmann, Paul Lucas, Fabio Riccardi, Till Westmann, J. Carey, Arvind Sundararajan

September The VLDB Journal — The International Journal on Very Large Data  
2004 Bases, Volume 13 Issue 3

**Publisher:** Springer-Verlag New York, Inc.

Full text available: Pdf (328.94 KB)

**Additional Information:** [full citation](#), [abstract](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 57, Citation Count: 15

This paper describes the design, implementation, and performance characteristics of a commercial XQuery processing engine, the BEA streaming XQuery processor. This XQuery engine was designed to provide high performance for message-processing applications, ...

#### 6 [A socio-aware overlay for publish/subscribe communication in delay tolerant networks](#)



Eiko Yoneki, Pan Hui, ShuYan Chan, Jon Crowcroft

October MSWiM '07: Proceedings of the 10th ACM Symposium on Modeling,  
2007 analysis, and simulation of wireless and mobile systems

**Publisher:** ACM

Full text available: Pdf (1.39 MB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 16, Downloads (12 Months): 222, Citation Count: 0

The emergence of Delay Tolerant Networks (DTNs) has culminated in a new generation of wireless networking. We focus on a type of human-to-human communication in DTNs, where human behaviour exhibits the characteristics of networks by forming a community. ...


**Keywords:** connectivity modeling and analysis, delay tolerant networks, network measurement, pervasive computing, social networks

## 7 Toward Flexible Messaging for SOAP-Based Services

Geoffrey Fox, Shrideep Pallickara, Savas Parastatidis

November 2004 SC '04: Proceedings of the 2004 ACM/IEEE conference on Supercomputing

**Publisher:** IEEE Computer Society

Full text available:  Pdf (247.58 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 126, Citation Count: 0

NaradaBrokering provides a messaging abstraction that allows it to provide message-related capabilities in a transparent fashion. These capabilities include message-based security, time and causal ordering, compression, virtualization of transport protocol ...


**Keywords:** Performance, Design, Reliability, Distributed middleware, Grid computing, Web Services, service oriented architectures

## 8 Data routing rather than databases: the meaning of the next wave of the web revolution to data management

Adam Bosworth

August 2002 VLDB '02: Proceedings of the 28th international conference on Very Large Data Bases

**Publisher:** VLDB Endowment

Full text available:  Pdf (11.44 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 21, Citation Count: 0

What is going to be as important in the next 20 years as relational databases were in the prior 20 years is the management of self-describing extensible messages. The net is undergoing a profound change as it moves from an entirely pull-oriented model ...


## 9 Service Oriented Database Architecture: APP server-lite?



David Campbell

June SIGMOD '05: Proceedings of the 2005 ACM SIGMOD international conference  
2005 on Management of data

**Publisher:** ACM

Full text available:  Pdf (505.57  
KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 172, Citation Count: 0

As the capabilities and service levels of enterprise database systems have evolved, they have collided with incumbent technologies such as TP-Monitors or Message Oriented Middleware (MOM). We believe this trend will continue and have architected the ...


## 10 Quality-constrained routing in publish/subscribe systems



Bogumil Zieba, Marten van Sinderen, Maarten Wegdam

November MPAC '05: Proceedings of the 3rd international workshop on Middleware  
2005 for pervasive and ad-hoc computing

**Publisher:** ACM

Full text available:  Pdf (389.71  
KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 58, Citation Count: 0

Routing in publish/subscribe (pub/sub) features a communication model where messages are not given explicit destination addresses, but destinations are determined by matching the subscription declared by subscribers. For a dynamic computing environment ...

**Keywords:** content-based, publish/subscribe, quality-constraints, quality-of-service, routing

## 11 Data protection and data sharing in telematics

Sastry Duri, Jeffrey Elliott, Marco Gruteser, Xuan Liu, Paul Moskowitz, Ronald Perez,  
Moninder Singh, Jung-Mu Tang

December Mobile Networks and Applications, Volume 9 Issue 6  
2004

**Publisher:** Kluwer Academic Publishers

Full text available:  Pdf (303.67  
KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 101, Citation Count: 1

Automotive telematics may be defined as the information-intensive applications enabled for vehicles by a combination of telecommunications and computing technology. Telematics by its nature requires the capture, storage, and exchange of sensor data to ...

**Key words:** automotive telematics, data protection architecture, privacy policies

## 12 [XML stream processing using tree-edit distance embeddings](#)



Minos Garofalakis, Amit Kumar

March ACM Transactions on Database Systems (TODS), Volume 30 Issue 1 2005

**Publisher:** ACM

Full text available: [Pdf](#) (726.56 KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 17, Downloads (12 Months): 175, Citation Count: 3

We propose the first known solution to the problem of correlating, in small space, continuous streams of XML data through approximate (structure and content) matching, as defined by a general tree-edit distance metric. The key element of our solution ...

**Key words:** XML, approximate query processing, data streams, data synopses, metric-space embeddings, tree-edit distance

## 13 [SLA-driven business process management in SOA](#)



Vinod Muthusamy, Hans-Arno Jacobsen, Phil Coulthard, Allen Chan, Julie Waterhouse, Elena Litani

October CASCON '07: Proceedings of the 2007 conference of the center for advanced studies on Collaborative research

**Publisher:** ACM

Full text available: [Pdf](#) (111.96 KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 285, Citation Count: 0


In a Service-Oriented Architecture (SOA), distributed applications are built by orchestrating reusable services using high-level workflows or business processes. The complexity of developing and maintaining these processes is addressed by SOA development ...

**14** Use of discrete event simulation to validate an agent based scheduling engine

Shubhabrata Biswas, Sara Merchawi

December WSC '00: Proceedings of the 32nd conference on Winter simulation  
2000

**Publisher:** Society for Computer Simulation International

Full text available:  Pdf (211.92 KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 14, Citation Count: 0


This paper discusses the use of simulation in a new context. Most often QUEST is viewed as a stand-alone simulation tool to analyze and understand shop floor behavior. It has rarely been used in conjunction with other proprietary software. This paper ...

**15** A generic solution for warehousing business process data

Fabio Casati, Malu Castellanos, Umeshwar Dayal, Norman Salazar

September VLDB '07: Proceedings of the 33rd international conference on Very  
2007 large data bases

**Publisher:** VLDB Endowment

Full text available:  Pdf (302.75 KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 172, Citation Count: 1

Improving business processes is critical to any corporation. Process improvement requires *analysis* as its first basic step. Process analysis has many unique challenges:  
i) companies execute many business processes, and devising ad hoc solutions ...


**16** Evaluation of spoken multimodal conversation



Niels Ole Bernsen, Laila Dybkjær

October I CMI '04: Proceedings of the 6th international conference on Multimodal  
2004 interfaces

**Publisher:** ACM

Full text available:  Pdf (131.11 KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 40, Citation Count: 2

Spoken multimodal dialogue systems in which users address face-only or embodied interface agents have been gaining ground in research for some time. Although most systems are still strictly task-oriented, the field is now moving towards domain-oriented ...

**Keywords:** evaluation, natural interaction, spoken conversation

## 17 [A framework for rapid integration of presentation components](#)



Jin Yu, Boualem Benatallah, Regis Saint-Paul, Fabio Casati, Florian Daniel, Maristella Matera

May 2007 WWW '07: Proceedings of the 16th international conference on World Wide Web

**Publisher:** ACM

Full text available: Pdf (402.78 KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 23, Downloads (12 Months): 327, Citation Count: 1

The development of user interfaces (UIs) is one of the most time-consuming aspects in software development. In this context, the lack of proper reuse mechanisms for UIs is increasingly becoming manifest, especially as software development is more and ...

**Keywords:** XPIL, component model, presentation component, presentation composition, presentation integration, user interface (UI)

## 18 [Migration to web services oriented architecture: a case study](#)



Jia Zhang, Jen-Yao Chung, Carl K. Chang

March 2004 SAC '04: Proceedings of the 2004 ACM symposium on Applied computing 2004

**Publisher:** ACM

Full text available: Pdf (159.22 KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 266, Citation Count: 1

The rapid emerging of web-services technology is dramatically changing the scenario of web application design and development. This paper presents a web-services oriented architecture. As a case study, the paper reports on an on-going project on the ...

**Keywords:** Web application development, case study, software architecture, web services oriented architecture

## 19 [Time-critical information services](#)



Thomas A. Horan, Benjamin L. Schooley

March 2007 Communications of the ACM, Volume 50 Issue 3

**Publisher:** ACM

Full text available: Html (32.36 KB), Pdf (148.93 KB)


**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 31, Downloads (12 Months): 331, Citation Count: 1


Emergency medical services have never been more ready for the implementation of time-critical interorganizational information services for the public good.



## 20 [Focused iterative testing: a test automation case study](#)

 Mechelle Gittens, Pramod Gupta, David Godwin, Hebert Pereyra, Jeff Riihimaki  
June DBTest '08: Proceedings of the 1st international workshop on Testing  
2008 database systems

**Publisher:** ACM

Full text available:  Pdf (144.28 KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 7, Citation Count: 0

Timing-related defects are among the most difficult types of defects to catch while testing software. They are by definition difficult to reproduce and hence difficult to debug. Not all components of a software system have timing-related defects. For ...

**Keywords:** database management systems, multi-threaded, testing

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